H.A.A.U.G.

HOUSTON AREA APPLE USERS GROUP

THE APPLE BARREL

*** contents ***

<<<   CLUB NOTES   >>>

Houston Area Apple Users Group
APPLE BARREL
4331 Nenana Drive
Houston, TX 77035

The HOUSTON AREA APPLE USERS GROUP is
an Apple II user club, not affiliated
with Apple, Inc., or with any retail
computer store. HAAUG is a member of
the International Apple Core and
supports its purposes and
publications. General membership
meetings are held on the second
Thursday of each month in the rear
chapel of Memorial Lutheran Church,
5800 Westheimer, right by the Jungman
Branch Library and west of Chimney
Rock. They start at 6:30 p.m. An
additional meeting for access to the
club software library,
problem-solving, and various lectures
is held the last Saturday of each
month at the University of Texas
School of Public Health (in the
Medical Center), 6905 Bertner off
Holcomb, across from Medical Center
entrance #5. We meet on the main
floor, first room on the left.
Parking is adjacent to the building.
These Saturday meetings begin at 2:00
p.m. Bring your Apple if you like!

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OFFICERS / EXECUTIVE BOARD

President	Bruce Barber	469-5805
Vice President	Mike Kramer	358-6687
Treasurer	Ray Essig	497-7165
Secretary	Paul Maddock	783-1521
Software Lib.	Dennis Cornwell	774-0671
Hardcopy Lib.	Larry Baumann	498-3433
Hardware Chair	Charles Yust	783-5321
Business Uses	Rudge Allen	622-3979
Membership	Lee Gilbreth	342-2685
Newsletter Ed.	Ed Seeger	723-6919

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MEMBERSHIP INFORMATION

Dues are $18.00 per 12-month period
for regular memberships, $6.00 for
students through high school and where
no adult member of the family is an
Apple user. Please make checks
payable to "Houston Area Apple Users
Group," and mail to Lee E. Gilbreth,
Membership Chair, 3609 Glenmeadow,
Rosenberg, TX 77471. This includes a
subscription to APPLE BARREL, which is
published nine times a year.
Newsletter exchanges with similar
clubs are invited.

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APPLE BARREL REPRINT POLICY

Unless otherwise indicated within the
program or article, any ORIGINAL
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newsletter, PROVIDED proper credit is
given to the APPLE BARREL and the
article or program author.

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SPECIAL INTEREST GROUPS

Members who share a common interest
are encouraged to form Special
Interest Groups to more fully explore
their fields. Meetings may be
arranged by common consent of the
group and will ordinarily have one
member who serves to coordinate or
convene the meetings. If you would
like to start a group around any given
interest, please contact one of the
club officers. If you would like to
be in touch with others who share one
of the following interests with you,
please phone the coordinator.

Current groups are:

1) BUSINESS APPLICATIONS
   Coordinated by Rudge Allen,
   622-3979

2) PASCAL USERS
   Pat McGee coordinating,
   663-6806
   This Special Interest Group is
   to meet and discuss aspects of
   Apple's Pascal language and to
   exchange programs.

3) MODEM USERS
   Herb Crosby coordinating,
   497-1061

4) HAM RADIO OPERATORS
   Coordinated by Ed Seeger, WB5PTW
   723-6919
   Apple Net, 14.330 MHz, Sundays
   at 7:00 p.m. C.S.T. Worth moni-
   toring! WB7TRQ, Jim, net control

5) NEW MEMBERS
   Coordinated by Lee Gilbreth,
   342-2685

6) EDUCATIONAL APPLICATIONS
   Coordinated by Darrell Kachilla,
   498-0186

7) BEGINNERS' PROGRAMMING
   Coordinated by John C. Whiteman,
   974-7287 (home)
   This Special Interest Group is
   to meet and discuss Integer Basic
   and Applesoft.

8) FILE CABINET
   Coordinated by Lee Gilbreth,
   342-2685
   Purpose is to understand, expand
   and enhance the File Cabinet
   program.

9) SCIENTIFIC PROGRAMMING
   Coordinated by Martin Edelstein
   729-4199
   Includes Forth language group.
   Meets at 12:00 noon last Sat.
   of month, same location as Sat.
   meeting.

APPLE BULLETIN BOARD SYSTEM

The Houston Area Apple Users Group
supports an ABBS evenings and
weekends, 6:00 pm through 8:30 am, and
all weekend long. Feel free to
sign-on and place your want-ad,
meeting notice, request for help,
Aggie joke, etc. Any ASCII terminal,
Apple computer or not, with suitable
modem or coupler, will give you ABBS
capability. Note that our ABBS now
has download capability! Please sign
off properly with 'G' command. Call

713/654-0759

SYSOP is Rudge Allen, 622-3979.

FINANCIAL REPORT

Balance December 31, 1980		3879.71
INCOME: Dues, Str Kts, Mag		1928.75
Disk Sales - net		159.00
Memory Chips - net		34.60
TOTAL INCOME		6002.06
EXPENSES: Meeting Room		105.00
OEM Bal on Prepd		3595.20
Miscellaneous		47.14
TOTAL EXPENSES		3747.34

Balance February 28, 1981 2254.72

NOTE: Most income is derived from
annual dues although APPLE BARREL
expenses will normally digest 1/2
of that income. The OEM figure
represents 'float' and should net
to a zero on an annual basis.

Ray Essig, Teasurer

HAAUG, INC

The Houston Area Apple Users Group
was incorporated in the State of
Texas as a non-profit organization
on the 27th Day of February 1981.

We have applied for Federal Tax
Exempt status.

--- A MESSAGE FROM YOUR CLUB PRESIDENT ---

I HAVE BEEN YOUR PRESIDENT FOR 15 MONTHS AT THE END OF MARCH. IN THAT
TIME I HAVE SEEN US GROW FROM A MEMBERSHIP OF 135 TO OVER 430. OUR
TREASURY BALANCE WHEN I TOOK OVER WAS $ -450.00 AND NOW IS ABOUT $4500.
LIKEWISE IN THE PAST YEAR OUR EXPENSES HAVE INCREASED BOTH IN REAL TERMS
AND BECAUSE OF INFLATION. WE ALSO PROVIDE MANY TIMES MORE SERVICES TO
OUR MEMBERS. THE SERVICES WHICH HAVE BEEN INSTITUTED IN THE LAST YEAR
INCLUDE SUCH THINGS AS DISKETTE SALES, EQUIPMENT DISCOUNTS, A VAST
SOFTWARE LIBRARY, A HARDCOPY LIBRARY AND CLASSES IN PROGRAMMING. THESE
THINGS AND MANY MORE MAKE OUR CLUB AN IMPORTANT PART OF THE "APPLE EXPER-
IENCE". ALTHOUGH OUR CLUB HAS GROWN SIGNIFICANTLY IN MEMBERS AND SERVICES,
IT HAS NOT ALWAYS BEEN A SMOOTH AND ORDERLY GROWTH. THE PRINCIPLES WHICH
WE USED TO GOVERN AND RUN THE CLUB A YEAR AGO CANNOT ALL BE READILY APPLIED
TO A CLUB OF 450.

A YEAR AGO WHEN MEMBERSHIP WAS UNDER 200, WE HAD ABOUT FOUR PEOPLE WHO
DID 90% OF THE WORK. TODAY WE HAVE A VAST AMOUNT OF WORK AND YET THERE
ARE ONLY ABOUT 7 PEOPLE DOING 90% OF THE WORK FOR ALL 430 OF YOU!! AT
EVERY MEETING I HEAR PEOPLE WHO SUGGEST THAT WE TAKE ON NEW PROJECTS SUCH
AS PUBLISHING LISTS OF MEMBERSHIP EXPERTISE, WHO HAS WHAT EQUIPMENT, MORE
CLASSES, A PRINTER AT THE SATURDAY MEETINGS, A FINANCIAL STATEMENT, ETC,
ETC, ETC. EACH OF THESE SUGGESTIONS HAS MERIT AND YET EACH SUGGESTION
REQUIRES TIME AND EFFORT BY AN ALREADY OVERWORKED GROUP OF OFFICERS AND
COMMITTEE CHAIRMEN. TO OVERCOME THIS LACK OF PEOPLE WORKING WITHIN THE
CLUB WE HAVE ASKED FOR HELP FROM THE MEMBERSHIP AND THE NUMBER OF PEOPLE
WHO SAID THEY WOULD HELP WAS GRATIFYING AND YET WE STILL HAVE A WORKER
SHORTAGE. THE REASON FOR THIS SHORTAGE IS SOMEWHAT UNDERSTANDABLE. FIRST
IT IS HUMAN NATURE TO SIGN UP FOR THESE WORTHWHILE TASKS AND YET WHEN WE
ARE ACTUALLY ASKED TO SPEND SOME TIME DOING SOMETHING, THERE ARE ALWAYS
TEN OTHER TASKS COMPETING FOR OUR TIME. SECONDLY, MANY OF THESE PROJECTS
REQUIRE THAT YOU ATTEND MEETINGS FAITHFULLY, SOME PEOPLE HAVE PROBLEMS
DOING THAT. ANOTHER THING THAT HAPPENS IS SOME OF YOU FEEL THAT YOU LACK
THE EXPERTISE NEEDED TO ACCOMPLISH A CLUB JOB. FOR SOME JOBS THIS MAY BE
A VALID REASON. LASTLY, MANY ARE WILLING TO DO SUCH THING AS STAPLE NEWS-
LETTERS OR BRING DISK DRIVES TO MEETINGS BUT WHAT WE NEED ARE MEMBERS WHO
WILL TAKE A JOB AND COORDINATE THE EFFORTS OF OTHERS OR HANDLE THE WHOLE
THING THEMSELVES. THESE ARE THE PEOPLE MOST VALUABLE AND SOUGHT AFTER AND
THE HARDEST TO FIND. SO UNTIL WE GET MORE OF YOU WHO ARE WILLING TO HANDLE
A COMPLETE TASK WE CAN DO ONLY TWO THINGS, AVOID TAKING ON NEW TASKS OR
PAY TO HAVE TASKS COMPLETED. IN REALITY, WE ARE TRYING TO DO BOTH METHODS.

AT OUR LAST EXECUTIVE MEETING HELD ON MARCH 16, 1981 WE DISCUSSED THESE
PROBLEM AREAS. THE FOLLOWING IS A CAPSULE OF THE TOPICS DISCUSSED AND
THE DECISIONS ARRIVED AT.

++ ED SEEGER IS QUITING AS EDITOR OF THE APPLE BARREL. I HAVE BEEN ABLE
TO LOCATE A PUBLISHER (NOT A CLUB MEMBER) WHO WILL HELP PUBLISH THE NEWS-
LETTER AND QUARTERLY MAGAZINE. RAY ESSIG HAS VOLUNTERED TO ACT AS THE
CLUB NEWSLETTER AND MAGAZINE COORDINATOR. WE WILL HIRE SOMEONE TO HELP
DO CLERICAL TASKS FOR THE NEWSLETTER AND WE WILL PAY FOR FEATURE ARTICLES
PRINTED IN THE MAGAZINE. IF WE FIND THAT THE NEWSLETTER IS TOO TIME
CONSUMING, WE WILL SWITCH TO A QUARTERLY MAGAZINE ONLY.

++ SINCE PEOPLE WANT MORE CLASSES IN PROGRAMMING AND OTHER ASPECTS OF THE
APPLE, WE SHOULD PAY INSTRUCTORS FOR DEVELOPING AND PRESENTING THESE
CLASSES. THE CLASS COSTS WILL BE RECOVERED BY SELLING PRINTED MATERIAL
NEEDED IN THE CLASSES.

++ THE PRICE OF DISKETTES SOLD IN THE CLUB IS TOO LOW TO COVER THE COSTS
INVOLVED. WE WILL HAVE TO INCREASE THE PRICE TO $35.00 FOR 10 SCOTCH
DISKETTES.

++ WE NEED A DISK DRIVE WHICH IS OWNED BY THE CLUB AND USED FOR THE SOFTWARE
EXCHANGE. A DRIVE WILL BE PURCHASED BY THE CLUB. THE COST OF THE SOFTWARE
EXCHANGE IS INCREASING DUE TO THE SIZE OF IT, THE NUMBER OF COPIES MADE AND
THE NUMBER OF DISKETTES WE HAVE TO USE. TO DEFRAY THE COST WE WILL INSTI-
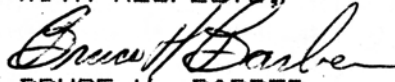TUTE A $1.00 CHARGE FOR EACH TURN AT COPYING 5 DISKETTES.

++ THE AMOUNT OF EQUIPMENT WE ARE SELLING WITHIN THE CLUB HAS INCREASED
TO THE POINT WHERE WE MUST INSTITUTE A HANDLING CHARGE IF WE ARE TO CON-
TINUE TO OFFER THIS SERVICE. ALL ORDERS WILL HAVE A 1% HANDLING CHARGE
ADDED ON TO THEM.

FOR SOME OF YOU WHO HAVE BEEN IN THE CLUB FOR A YEAR OR MORE, THESE CHANGES
PROBABLY APPEAR TO BE A RADICAL CHANGE. HOWEVER, THEY ARE NECESSARY IN A
CLUB AS LARGE AS OURS. EACH MONTH WE GROW BY ABOUT 30 NEW MEMBERS WHO
EACH NEED THE SAME SUPPORT WE NEEDED WHEN WE FIRST GOT OUR COMPUTERS. AT THE
SAME TIME WE HAVE A LARGE GROUP WHO HAVE ADVANCED TO MANY INTERMEDIATE AND
ADVANCED STAGES AND ARE NOW READY FOR US TO PROVIDE DIVERSE AND SOPHIST-
ICATED SERVICES. HOW CAN WE PLEASE ALL OF YOU?

WE ENCOURAGE YOU TO HELP US SOLVE THE PROBLEMS OF GROWTH. BUT REMEMBER
ANY SOLUTIONS MUST INCLUDE THE PEOPLE TO IMPLEMENT THEM. IF YOU WANT TO
DISCUSS THESE THINGS WITH THE OFFICERS, COME TO THE THURSDAY MEETING IN
APRIL AND WE WILL PROVIDE A FORUM FOR YOUR IDEAS.

THE PAST YEAR HAS BEEN ONE OF SHARING INFORMATION AND EXPERIENCING THE
COMMARADERIE OF OUR COMMON INTEREST. WE HOPE THAT WE CAN CONTINUE TO BE
THE FORUM FOR ALL OF YOU TO SHARE IN THE "APPLE EXPERIENCE".

WITH RESPECTS,

BRUCE H. BARBER
PRESIDENT

SON OF A .....FILE CABINET !

FILE CABINET continues to be a program which holds great interest amoung many members of HAAUG. For most, it has been one's first experience with a Data Base program. The price was right; it was a swap from the Software Library or it came as part of the Starter Kit. It was fun to experiment with and for some, it has been put into practical use- making household inventories, Christmas card lists, etc. For others though, it has been a source of frustration- data files messed up after hours of input, unresponsive printers, etc. Yet we keep trying to get the program to work better, realizing its potential and understanding enough of its structure to make useful alterations.

Last September, a FILE CABINET Special Interest Group was started and the first donations of FILE CABINET-related programs were presented to the club. Reprinted here is one of those programs, a tutorial called FILE CABINET EVOLUTION, which set the stage of developement of FILE CABINET at that time:

]RUN

FILE CABINET EVOLUTION

THE ORIGINAL FILE CABINET PROGRAM (REFERED TO AS FC I) WAS OFFICIALLY DONATED TO THE PUBLIC DOMAIN BY APPLE COMPUTER, INC IN 1978. FIVE PAGES OF INSTRUCTIONS WERE PRESENTED IN VOL 3 OF THE APPLE SOFTWARE BANK TO ACCOMPANY ITS PRESENTATION. NOT LONG AFTERWARD, FILE CABINET "BUGS" WERE DISCOVERED BY APPLE USERS AND VARIOUS FIXES AND NEW VERSIONS OF FILE CABINET BEGAN TO APPEAR.

IN MAY 1979, GARY FOOTE INTRODUCED AN INPROVED FILE CABINET (WE SHALL CALL IT FC II) IN WHICH HE REWROTE THE SORT ROUTINE TO INCREASE ITS SPEED. HE ADDED A SUMMARY REPORT FEATURE AND CAPABILITY TO REPEAT PREVIOUS DATA ENTRY.
<RETURN>
HE ALSO INSTALLED A "AVG RECORD SIZE" REQUIREMENT TO SECURE MORE MEMORY SPACE TO STORE LARGE RECORD FILES. THIS LATER CHANGE, IN EFFECT, INCREASED THE INDEX OR RECORD FIELD BY ONE MORE HEADER AND MAKES THE TEXT FILE FORMATS UNIQUE TO HIS VERSION ONLY. HENCE ANY RECORDS AND REPORTS SAVED UNDER OTHER FILE CABINET PROGRAMS CAN NOT BE READ OR ADDED TO BY FC II AND VISA VERSA. NEVERTHELESS FC II IS IMPROVED AND WORKS WELL OVER FC I.

BY THE END OF THE YEAR NO LESS THAN THIRTEEN PROBLEMS IN FC I WERE ISOLATED AND REPAIRED BY MEMBERS OF PUGET SOUND (A.P.P.L.E.) CLUB. BESIDES PROGRAM CORRECTIONS IN SOME OF ITS ROUTINES, ADD ONS SUCH AS REPORT PAGE NUMBERS, HEADING BORDERS, ETC WERE PRESENTED. A PROBLEM
<RETURN>
OF MISPRINT AND SUBTLE PROGRAM CONFLICTS PREVENTED CLEAN PUBLICATION OF ALL THE CHANGES.

IN DECEMBER 1979, DICK STEIN CAME OUT WITH HIS VERSION OF FILE CABINET, WHICH WE SHALL CALL FC III. HE SUCCESSFULLY INCORPORATED AT LEAST ELEVEN FIXES TO THE AFOREMENTIONED PROBLEMS. HIS PROGRAM AUTOMATICALLY ADDS DECIMAL CENTS TO ALL REPORT NUMBER TOTALS, RIGHT JUSTIFIES REPORT COLUMNS AND INCLUDES AN ABILITY TO CHANGE HEADER TITLES AT WILL. A GOOD WORKING PROGRAM, FCIII WAS INCLUDED IN THE HAAUG STARTER KIT AS THE REPRESENTATIVE OF FILE CABINET FROM OUR SOFTWARE LIBRARY.
<RETURN>
NELSON CAPES PUBLISHED IN THE MAY '80 ISSUE OF 'CALL APPLE' HIS CONTRIBUTION TO FILE CABINET. ADAPTED TO FC II, CAPES DEVELOPED A MODIFICATION TO EDIT ALL INPUT DATA AGAINST VALIDATION CODES ESTABLISHED AT THE TIME OF HEADER CREATION (HENCE WE'LL CALL IT FCII-VAL).

TO MAKE HIS WORK COMPLETE, HE MADE UP A SEPARATE PROGRAM CALLED 'VALID MAINT' WHICH CREATES A VALID FILE TO MATCH ANY DATA BASE ESTABLISHED EARLIER BY FC II. AS YOU MAY REMEMBER, FC II TEXT FILES ARE UNTO THEMSELVES, YET AS LUCK WOULD HAVE IT, ONLY SLIGHT MODIFICATION WAS NEEDED TO CONVERT 'VAL MAINT-FC II' INTO 'VAL MAINT-FC I'.
<RETURN>
A MONTH LATER, MIKE KRAMER GAVE THE 'APPLE BARREL' A STAND ALONE WORK CALLED 'FILE CABINET STUFFER'. THIS PROGRAM PERMITS GLOBAL REVIEW OF LONG RECORD FILES AND ALLOWS CHANGES TO BE MADE QUICKLY, RATHER THAN HAVING TO GO THRU THE SLOW, SINGLE RECORD SEARCH & CHANGE PROCESS. THIS ROUTINE ADDED ANOTHER PROFESSIONAL ADJUNT TO FILE CABINET.

ALSO DURING THE SUMMER, ANOTHER HAAUG MEMBER, LARAY GEIST, DEVELOPED HIS HERETOFORE UNPUBLISHED RENDITION OF FILE CABINET. NOW LABLED FC IV, HIS MODIFICA-TIONS ADDED DATES TO REPORTS, RIGHT JUSTIFIES NUMBERS ONLY, DIAPLAYS RECORD SEARCH ACTION, ALLOWS FOR RECORD DATA CORRECTION PRIOR TO COMMITMENT TO DISK AND SEVERAL OTHER FEATURES. HIS PROGRAM WAS TAKEN FROM FC III AND THEREFORE ENJOYS ALL ITS ADVANTAGES.

<RETURN>
BY SEPTEMBER 1980, YET ANOTHER VERSION OF FILE CABINET WAS COMPLETED. THIS AUTHOR ALSO TOOK FC III AND MODIFIED IT. CALLED FC V, IT INCORPORATES EDITING CAPABILITY OF CAPES' VALID, ENABLES FULL MANIPULATION OF HEADERS (ADD, CHANGE OR DELETE), AND MAKES POSSIBLE GLOBAL RECORD CHANGES AS IN 'STUFFER'. IT CAN MAKE BLANKET ARITHMATIC CHANGES TO EXISTING RECORDS AND CUT OUT SELECTED SECTIONS FROM THE RECORD FILE.

MODIFICATIONS AND ADDITIONS TO FILE CABINET CONTINUE TO GROW AS MORE AND MORE APPLE USERS BEGIN TO EXPERIMENT AND UTILIZE THE PROGRAM. BEING SUCH AN OPEN EFFORT, IT IS DIFFICULT TO IDENTIFY AND DISEMINATE INFORMATION ON BUT A FEW OF THEM.
<RETURN>
COPIES OF THE AFOREMENTIONED PROGRAMS ARE GOING INTO THE HAAUG SOFTWARE LIBRARY THIS DATE. LET US HOPE THAT OUR MEMBERSHIP CAN CONTRIBUTE AND ADD TO THE COLLECTION.

-LEE GILBRETH SEPT 1980

Since the report above, HAAUG members have added to the file. Glen Blaha blended FC IV and FC V into an issue of FILE CABINET we shall call FC VI. A particular enhancement was made in the Global Arithmatic feature, whereby the user can matematically manipulate record data from header to header and from record to record.

More recently, Jim Good found difficulty with FC III in its re-sponse to his Anadex printer. His surgery corrected the problem and perfected the printer interface. Noting that each addition to FILE CABINET also lenghtens the program and further restricts memory space needed for file data retention, Good proceeded to optimize FC VII by about 20%.

The FILE CABINET Special Interest Group will be meeting from time to time for discussions and interchange of ideas. Meanwhile, any contributed works of FILE CABINET will be inserted into the Software Library under DATABASE Core Volumes.

< Lee Gilbreth >

HAAUG EDUCATION COMMITTEE REPORT

BY DARRELL KACHILLA

The members of HAAUG interested in edcuational activities associated with the APPLE II computer recently met, and discussed the projects we could get involved in.   These possibilities are listed here.   If you have interest in any of these projects, contact Darrell Kachilla (498-0186 evenings).   Pass on your ideas too !

Writing programs, or revising already existing educational programs, is obviously a possibility for individuals or groups. Projects devoted toward a particular type of educational area (math, grammar, sports education, science, lab-simulations) or a particular age group (retarded, pre-school, elementary, teenage, college, adult) were suggested.   These can be done as a HAAUG committee or in cooperation with education organizations.   With proper planning, some of these have commercial possibilities also.

There is a large need for people who know the APPLE II computer and are willing to share this knowledge.   Classes for teachers have already been successfully tried, and discussions with REGION IV (the Texas state education agency for this area, handling the APPLE II disguised as a BELL & HOWELL computer) have generated interest there in such classes, as well as getting programs written for them. Volunteers capable of, and willing to offer help on a continuing or as-needed basis to individual schools or school districts should call that organization, or get in touch with me.

POORBOY WORD PROCESSOR

By Mike Kramer

The short program listed below is a combination of two capabilities which may be of interest to many of you. The first is a technique to print upper and lower case on an Epson MX-80 printer using keyboard input. The <ESC> key is used to indicate the next should be printed upper case. The next character typed will appear on the screen in inverse video. An <ESC> must be typed for each upper case character. A CTRL E is recognized as an end command.

The "input anything" routine uses the GET command for input rather than INPUT. The main implication is that you can enter commas and colons without getting "extra ignored", etc. Provision is made for handling backspaces without backing off the edge of the screen.

REMS have been left out of the program to maximize speed. The comments below should help clarify what's going on.

Line 10 — Initialize
Line 20 — Blank out line before reading in characters.
Line 30 — Get a character, print to screen, no line feed, normal video.
Line 40 — If a <RETURN> then go off to print.
Line 50 — If a CTRL E end.
Line 60 — If a back space and no characters left, blank out line.
Line 70 — If a back space and more than 1 character, drop last character.
Line 80 — Good one. Add it to the line to be printed. Beep if > 75 characters.
Line 90 — If an <ESC> set inverse video.Line 100 — Get another character.
Line 130 — Prints a prompt and saves vertical cursor position. Goes to get line.Line 140 — If line length is zero, position cursor at first character position.
Line 150 — Turn on printer.
Line 170 — Prepare for lower case letters.
Line 180 — Loop through characters in line.
Line 200 — If <ESC>, flag for upper case and look at next character.
Line 210 — If not a letter do not try to print upper case.
Line 220 — Print the character. If a letter and preceded by <ESC>, capitalize.
Line 250 — Turn off printer.
Line 270 — Go back for another line.

```
10  GOTO 110
20  LINES = ""
30  GET A$: PRINT A$;: NORMAL
40  IF A$ = CHR$ (13) THEN RETURN

50  IF A$ = CHR$ (5) THEN END
60  IF A$ = CHR$ (8) AND LEN (L
    INE$) < = 1 THEN LINE$ = ""
    : RETURN
70  IF A$ = CHR$ (8) AND LEN (L
    INE$) > 1 THEN LINE$ = LEFT$
    (LINE$, LEN (LINE$) - 1): GOTO
    30
80  LINE$ = LINE$ + A$: IF LEN (L
    INE$) > 75 THEN PRINT CHR$
    (7);
90  IF A$ = CHR$ (27) THEN INVERSE

100  GOTO 30
110  D$ = CHR$ (4)
120  HOME
130  PRINT "^";:CV = PEEK (37): GOSUB
     20
140  IF LEN (LINE$) = 0 THEN POKE
     36,0: POKE 37,CV: GOTO 130
150  PRINT D$"PR#1"
160  PRINT CHR$ (9)"80N"
170  CAP = 32
180  FOR I = 1 TO LEN (LINE$)
190  CH$ = MID$ (LINE$,I,1)
200  IF ASC (CH$) = 27 THEN CAP =
     0: GOTO 240
210  IF ASC (CH$) < 65 OR ASC (
     CH$) > 90 THEN CAP = 0
220  PRINT CHR$ ( ASC (CH$) + CA
     P);

230  CAP = 32
240  NEXT I
250  PRINT CHR$ (9)"I"
260  PRINT D$"PR#0"
270  GOTO 130
280  REM
290  REM        "GET" INPUT
300  REM             &
310  REM        EPSON MX-80
320  REM
330  REM  UPPER/LOWER CASE PRINT
340  REM
350  REM        WRITTEN BY
360  REM
370  REM        MIKE KRAMER
```

A WARNING TO THE MEMBERS OF H.A.A.U.G

I don't know why I assumed that anyone who owns an Apple and/or attends
H.A.A.U.G. meetings would be an honest person. After all, all it takes
is a little money to indulge in the hobby many of us enjoy so much. My
assumption that everyone attending our meetings is honest cost me my
"Best Games" disk at the February 28 Saturday meeting. Maybe I would
still have it if I had labelled it "Worst Games"!

I can't say for sure who took the disk. I do know that a short time
before, an adult male whom I don't know saw its catalog on my monitor
as one of my young friends played the games. I had just left the
assembly language course for a few minutes to see if my friend was
having any problems. The gentleman then asked if he could copy the
disk. Since there were several copyrighted programs on the disk I said
that I couldn't. He pressed the matter, but I refused again and
returned to the class. My friend continued playing the games, departing
to go home after a short time. When I returned to my system after the
class the games disk was gone. I cannot definitely say who took it, but
I think I know. Unfortunately, I don't remember what he looked like.
I had all but two of the lost programs on other disks, so my loss was
only a $5 disk and an hour or so of my time. I was glad I had a
printout of the catalog. Unfortunately, I won't be bringing my system
to meetings anymore. I rarely used it there anyway, since I spend most
of my time trying to help others learn about and enjoy their Apples.

The main reason for my writing this is not to get your sympathy, but to
let you know what can happen to your property. I actually feel
fortunate that I didn't lose one of the cards I had in my carrying case
or some of the other software which would have been harder to replace.

MIKE KRAMER

INTERNATIONAL APPLE CORE ™   **BULLETIN**

P. O. BOX 976, DALY CITY, CALIFORNIA 94017 USA

Some bad/good news.

The bad, Steve Wozniak — the Woz — co-inventor of the APPLE, crashed
his private plane a few weeks ago. Both he and his fiancee, Candy,
suffered severe lacerations of the face. He also suffered a
concussion and partial lapse of memory. He had just been transferred
to El Camino Hospital in Mountain View, California, when I called
him. He was quite concerned about Candy. He was overwhelmed by the
concern and well wishes expressed by all the "APPLE people". He says
he intends to fly again. The good news, both have been released from
the hospital, and the prognosis is good.

New:

● The latest version (7?) of the APPLE II allows for easy modification by you (beware of voiding warranties) to enable the use of the shift key to get capital letters. Also, it seems to provide a socket for the SupR-term (80 column) board. Plus other goodies.

● Computer Data Services is marketing a Memory Management System which expands your APPLE by 10.5K of programmable memory by relocating DOS onto a 16K RAM expansion board language card for use in slot 0. Retails for less than $50.

● More power to ya. M&R has come out with a beefed up power supply. The SupR switched external power supply looks just like a disk drive and supplies 60 watts, 6 amp at 5 volts or 1 amp at ±12 volts, etc. Will retail for approximately $295.

On Sunday, February 22, A.B.S. Computer Services of Olympia, Wash. was robbed and its owners, Henry and Laverne Rumberger, were killed. The following items (listed with serial numbers) were taken:

1. APPLE III, 128K   001065
2. APPLE II, 48K A2SA   152415
3. APPLE II, A2M030   11892
4. APPLE II, 48K w/controller 95802
5. DISK II w/controller 215227
6. BMC Monitor 65101709
7. Sony KB1276 TV   503527
8. Centronics Printer 12349
9. 2 IDS 440 Printers 315 and 316
10. Stockwatch 15N 5980

If you have any information on these items, call Detective Jones of the Olympia Police Department.

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